610-874-8436
ers@wasinc.com

ENGINEERED RESIN SOLUTIONS

ERS-2650 SEWER SAVER

SELECTION & SPECIFICATION DATA

Type	Polyamide Epoxy
Description	ERS-2650 Sewer Saver is a high build, high flexural strength epoxy lining for concrete, steel, or ductile iron.Damp surface tolerant and resistant to hydrogen sulfide attack, it is also well suited for municipal wastewater sewers, manholes, and wet wells.
Features	»100% solids, no VOCs » H2S resistant » Moisture tolerant » Long-term wear protection » 125 mils in a single coat » Meets AWWA C210 performance requirements
Uses	»Tank linings » Secondary containment » Manholes » Lift stations » Pipe coatings and linings
Color	Light green
Finish	Gloss
Dry Film Thickness (DFT)	30 -125 mils per coat
Solids Content	99 - 100% by volume

SUBSTRATES & SURFACE

ALL	Substrate must be clean, dry and free of contaminants.
Steel	Immersion: SSPC-SP 10/NACE 2 Near White Metal Blast with angular profile of 2.5 - 3.5 mils. Non-immersion: SSPC-SP 6/NACE 3 Commercial Blast with angular profile of 1.5 - 3.0 mils, SSPC-SP 2 Hand Tool or SSPC-SP 3 Power Tool Cleaning are suitable for mild environments. Self-priming on steel.
Concrete or Concrete Masonry Units (CMU)	Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with SSPC-SP 13/NACE 6. Required surface profile is CSP 4-7. Voids in concrete surfaces may require filling. Mortar joints should be cured a minimum of 15 days. Prime with ERS 1100 Primer/Sealer.
Previously Painted Surfaces	Consult with ERS Technical Service Department

MIXING & THINNING

Ratio	2A:1B by volume
Mixing	Power mix separately, then combine and power mix
Thinning	Spray: Do not thin Brush: Upto 16 oz/gal (12%) with ERS TH1710 Thinner Roller: Up to 16 oz/gal (12%) with ERS TH1710 Thinner
Cleanup	MEK or Acetone

APPLICATION GUIDELINES

Spray Application	The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.
Airless Spray Plural Component	» Tip Size: 0.025 - 0.029 reversible type » Part A Fluid Line: 1/2-inch ID » Part B Fluid Line: 3/8-inch ID » Spray Line: 1/2-inch ID x 50 feet maximum » Whip: 1/4-inch - 3/8-inch ID » Whip Length: 20 feet » Pump Size: 56:1 or greater » Output: 4,000 - 6,000 psi, filter removed » Static Mixer: 2 x 1/2-inch ID x 12-inch (24-inches total length) behind mixing valve » Part A Temperature: 130°F - 135°F (54°C - 57°C) » Part B Temperature: 90°F - 95°F (32°C - 35°C)
Brush & Roller	This material may be applied with brush or roller. Be aware of work life when using brush or roller application
Brush	Medium bristle brush
Roller	Short-nap synthetic roller cover with phenolic core.

CURESCHEDULE & RECOAT WINDOW

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	RETURN TO SERVICE (HYDROCARBON IMMERSION)
50°F (10°C)	35 minutes	24 hours	4 days
77°F (25°C)	15 minutes	24 hours	12 hours
140°F (60°C)	Not recommended	Not recommended	4 hours

Return-to-service varies with chemical exposure. Consult Engineered Resin Solutions for guidance.

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PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
M-SG2510A-5GLB-01	ERS-2650 Sewer Saver - Part A Resin, Light Gray	5 gal (19 L) Pail
M-SG2408B-5GLB-01	ERS-2650 Sewer Saver -Part B Hardener, Green	5 gal (19 L) Pail
M-SG2510A-DRWL-01	ERS-2650 Sewer Saver - Part A Resin, Light Gray	50 gal (189 L) Drum
M-SG2408B-DRWL-01	ERS-2650 Sewer Saver - Part B Hardener, Green	50 gal (189 L) Drum

Theoretical Coverage
53 square feet per gallon at 30 mils
12.8 square feet per gallon at 125 mils.
Allow for loss in mixing and application.

Storage & Shelf Life
Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 12 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with ERS.

SAFETY

Safety
Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

Ventilation
Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	SYSTEM	VALUE
Dry adhesion ASTM D4541	Blasted steel 1 coat	>3,000 psi
Dry adhesion ASTM D4541	Concrete 1 coat	>400 psi concrete failure
Wet adhesion ASTM D4541 5 days 158°F (70°C) water1	Blasted steel 1 coat	>2,500 psi
Abrasion ASTM D4060 1000 cycles, CS17 wheel 1000 gm load	Blasted steel 1 coat	80 mg loss 770 cycles per mil
Compressive strength ASTM C109	Blasted steel 1 coat	12,000 – 15,000 psil
Hardness ASTM D2240	Blasted steel 1 coat	83 – 85 Shore D
Elongation ASTM D638		5%

Meets the performance requirements of AWWA C210

TEMPERATURE RESISTANCE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	220°F (104°C)
Dry, intermittent	250°F (121°C)
Under insulation	175°F (79°C)

Temperature limitations will vary with chemical exposure. Consult Engineered Resin Solutions for guidance.

Discoloration and loss of gloss occur above 200°F (93°C) but do not affect performance.

Engineered Resin Solutions, a Division of SchmidtIndustrial Services, LLC. | **418 W Front St., Chester, PA 19013| 610-874-8436 | resinteam.com**